

AMENDMENTS TO THE SPECIFICATION

Please replace page 8, lines 1-8 with the following amended paragraph:

In devices used in radioscopy, the digital detection means comprise a Radiological Image Intensifier (RII) (~~HR~~) also called brightness amplifier. This detector is used for creating imagery with excellent sensitivity in real time, but the image field is limited by the maximum size of the vacuum tubes (40 cm), a modest spatial resolution, image distortions and large dimensions.

Please replace page 6, lines 19-22 (two consecutive paragraphs) with the following amended paragraph:

Advantageously, electronic devices made using process technology having a feature device size of a 1.25 μm ~~technological system~~ are used.

Advantageously, electronic devices made using process technology having a feature device size of a 0.1 μm ~~technological system~~ are used.

Please replace page 12, lines 17-19 with the following amended paragraph:

In a first embodiment, a 30 cm silicon substrate is used with electronics made using the 0.1 μm process technology ~~technological system~~.

Please replace page 13, lines 15-24 with the following amended paragraph:

In a second embodiment, a 15 cm silicon substrate is used with electronics made using the 1.25 μm process technology ~~technological system~~. Electronics made using this type of technology is quite sufficient to integrate the electronics dedicated to radiology in a 100 μm pixel. Its advantage is its immediate availability and low manufacturing costs. For radioscopy applications, four 10 cm x 10 cm detectors can be combined to give a 20 cm x 20 cm detection area which is sufficient for a medical application.